

## ABSTRACT

### METHOD FOR PRODUCING CELLULOSE DERIVATIVES

Pulp is treated with a hemicellulase, e.g. a xylanase such as that derived from *Bacillus* sp. SD902, prior to being chemically modified. This results in excellent cellulose derivatives that could not be obtained by any conventional methods. Specifically, the cellulose derivatives produced by this method have improved filterability and increased water-solubility. In addition, according to this method, the formation of microgel is minimized, and the distribution of the substituents in the cellulose derivatives through the intramolecular substitution in the method is made more uniform.